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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R.S. Patton Director

6. & G. SURVE

L. & A.

NOV - 5 1930

State: S.W. Alaska.

Acc. No.

DESCRIPTIVE REPORT

Sheet No. Hydrographic

5035

LOCALITY

Orca Inlet

Cordova, Alaska,

19 30.

CHIEF OF PARTY

L.D. Graham

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

001 50 1930

HYDROGRAPHIC TITLE SHEET,

DEPARTMENT OF COMMERCE U. S, COAST AND GEODETIC SURVEY

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. ____1

5035 REGISTER NO.

State	Southwest Al	aska,				
General locali	ty	Orca Inlet.				
Locality	Çoı	dova.				
Scale 1 - 10,0	000 Date	of survey October 1 & 2	, 19 30 .			
Vessel Motor Vessel WESTDAHL.						
Chief of Party	T	L.D. Graham.	**************************************			
Surveyed by		L.D. Graham.				
Protracted by	*************************	R.A. Earle.				
Soundings pend	ciled by	R.A. Earle.				
Soundings in feet feet						
Plane of reference Mean Lower Low Water.						
Subdivision of	'wire dragge	d areas by				
Inked by						
Verified by						
Instructions d	lated	August 18	, 1930.			
Remarks: Te	ender WESTDAI	HL working in conjunction	with U.S.S.			
DISCOVERER; F.B.T. Siems, Commanding.						

U. S. GOVERNMENT PRINTING OFFICE: 1919

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC

SHEET

NO. 1

October 1 & 2, 1930.

Cordova, Alaska.

Motor Vessel WESTDAHL

L.D. Graham, Commanding.

Scale: 1 - 10,000

A. Date of Supplemental Instructions

August 18, 1930.

B. Survey methods:

All soundings were obtained with a twelve pound lead and standard No. 8 leadline.

Old triangulation stations were readily recovered and from these a few prominent objects were cut in as hydrographic signals.

No changes, regarding wharves, landmarks, etc., which would be of navigational importance, were noted.

Tidal data was obtained by staff readings taken every half hour during the period of sounding. The staff was that of the standard gauge located at the City Dock, Cordova, Alaska.

C. Comparison with previous surveys :

The northeast side of Odiak Channel has not changed appreciably; however, the channel is approximately 125 meters narrower due to the shoaling of the southwest side. The controlling depth in the channel is still 19 feet.

C. Comparison with previous surveys: (Continued.)

The bottom has changed a great deal around the shoal to the southward of Odiak Channel. A new channel, approximately 350 meters in width, has cut its way between said shoal and Grass Island, the controlling depth of same being 18 feet. The least depth on the shoal is now two feet instead of the four feet shown on the chart.

An examination was made of the reported 26 foot spot lying to the east of Buoy N 10, and no indication of it could be found.

D_{\bullet}	Statistics:	"A" Day.	"B" Day.	Total.
	Date.	Oct. 1, 1930.	Oct. 2, 193	0.
	Volume.	One.	One.	
	Soundings.	586	299	867
	Positions.	122	74	196
	Statute miles hydrography.	20.1	9.7	29.8
	Area covered - (sq. stat. mi.)		1.7

approved: J. J. J. St. Engr.

H. & G. Engineer.

STATEMENT OF INSPECTION AND APPROVAL.

Hydrographic Sheet No. 1 and all accompanying records of Odiak Channel, Cordova, Alaska, have been inspected and are hereby approved.

October 23, 1930.

L.D. Graham

Chief of Party.

Merember 10, 1980

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

Locality

Alaska (Orca Inlet)

Chief of Party: L.D.Graham, in 1930
Plane of reference is about lower low water, reading
2.4 ft. on tide staff at
44.2 ft. below B. M.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief. Division of Tides and Currents.

Report on Sheet no. H-5035

chief of Party: L. D. graham Surveyed by: L. D. graham Protracted and soundings phothed by R. a. Earle Verified and infeed by G. H. Streeter

- 1. The records conform to the requirements of the general Instructions.
 - 2. The plan and character of development julfill the requirements of the General Dustructions
 - 3. The plan and extent of development salisfy the Specific I naturations.
 - 4. With me exception no sounding line crossings were taken.
 - 5. The usual digith curves could be drawn.
 - 6. Ihr fild plotting in complete.
 - 7. Office drafteman did not have to do over any part of drafting done by field party.
 - 8. Ihr junctions with adjacent sheets is satisfactory.
 - 9. no further survey is necessary.
 - 10. The show line was transferred from H-4415. attention is called to a six-fort sounding

350 meter northeast of "grass". There is no record on to the certainty of this defeth although the Book sheet and Sounding Records agrees.

11. The character and surper of the surreying is good.

The quality of the field dufting is join.

Respectfully submitted
gayland H. Streeter

nr. 15, 1930.

Section of F.R.,
Report on Hyd Ah. 5035

Orea Inlet. Alaska
Amrugadine 1930
Insumation asted Aug 18,1930 (Diesomer)

- 1. The records , as well as the plan tehanaler of the some to the requirements
- 2. The sounding line consumps are satisfacting and . The dysta cums can be comportedly drawn.
- 3. The specific instructions have been composed with.
- 4. For 26 foot soundings from H. 2940 (1908) morthwort

 of D Bol, his within the case development on

 H. 5035. This development shows no industria

 of ohraling. An aparimetron of the original records

 of H. 2940 discloses the fact that the 26 fort

 soundings were insoneously potential and they

 have been appringed from the sheet. They

 should, Therefore be omthat from the charts.
- 5. With the exception of a shorting which appears
 to have taken place within the part year
 at 60° 33.8', 145° 45.9', The agreement with
 H. 4915 is excellent and the latter short, which is
 trated as a recommensure, may be considered of
 standard accuracy and be used for charting.

6. additional development at the southern outrance
To Goliake Channel would have been deverable.

Behaviore The development throughout the area

crowd by The survey is sufficient.

19. The file drafing as well as the chancer and

scope John Durrying, are expected.

10. Persenved by E.O. Resi, January, 1931

- 7. A companion of H. 5035 with H. 2940 shows that all the curses defining the middle ground have moved northward from the fruith mile or more, while optimize severing has taken place to form the channel between the middle ground and Grows of. If the shooting noted in paragraph 5 also continues northward it will threaten the southern intruce. To Otiale Channel.
- 8. It will be necessary to resurvey the breaking at intervals to another the chart to represent actual contations. Future surveys should include the channel west of the middle ground as it is quite provide that it will be despended and straightened at the same time that ordisk Channel may be closed. App. A.M. Sobieralski

